

Homework #2-1 DSP

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- Accuracy: 97.93%

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1  ===== HTK Results Analysis =====
2  Date: Tue May  3 01:06:03 2016
3  Ref : labels/answer.mlf
4  Rec : result/result.mlf
5  ----- Overall Results -----
6  SENT: %Correct=93.54 [H=449, S=31, N=480]
7  WORD: %Corr=97.93, Acc=97.93 [H=1702, D=29, S=7, I=0, N=1738]
8  =====
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- Training process: Use TA's scripts and modify the following three parameters to train to model.
- The number of states: 15.

若 state 較多，比較能將 model 切的「細」一點，一個 state 能對應到較少 model 的特性，故能較精準描述 model 的狀態。

- The number of Gaussian mixtures: For state 2 to 14 in model liN to jiou, the number of Gaussian mixtures is 25, and for state 2 to 4 in model sil, it is 3.

因為 state 噴出的 observation 的機率分布為連續型，增加 Gaussian mixtures 的數量能較精確的描述此機率分布。

- The number of iterations: 10.

當 iteration 次數到達一定量，model 會收斂到較高的 accuracy，故能和 iteration 次數少的時候比較，accuracy 會較高。